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layering a pair of spaced apart electrodes on said carbonaceous thin film such that said fullerene polymer film is formed at least in the space between said electrodes.

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21. (twice amended) The method for manufacturing a carbonaceous complex structure according to claim 12 wherein
said fullerene polymer film is formed by vapor deposition of fullerene molecules to form a vapor-deposited film and then illuminating said film of fullerene molecules by electromagnetic waves to polymerize said fullerene molecules.

Please add the following claims:

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25. (new) A method for manufacturing a carbonaceous complex structure comprising:
a step of forming a first electrode having a surface with a roughness Ra set to not larger than 1 μm on a substrate;
a step of forming a carbonaceous thin film on the surface of the first electrode;
a step of forming a fullerene polymer film on said thus formed carbonaceous thin film;
and
a step of forming a second electrode on said thus formed fullerene polymer film.

26. (new) The method for manufacturing a carbonaceous complex structure according to claim 25 wherein
said substrate and the first electrode are transparent.

27. (new) The method for manufacturing a carbonaceous complex structure according to claim 12 wherein
said carbonaceous thin film is formed by thermal decomposition of an organic compound.

REMARKS

Pending, after amendment, are claims 12, 14, 20, 21, and 24-27. New claims 25-27 generally correspond to original claims 15, 16, and 18, respectively. The amendment to claims